Fundamental Mechanics Laboratory
Physics 131L - 002

Fall 2016

Instructor: *Dr. Chad A. Middleton*
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Classroom: *Wubben Hall 214*
Class hours: *R 1:30-3:15 pm*
Office hours: *MWF 11-12 pm*
TR 9-10 am

Course Objective:
Physics is an experimental science. The nature and validity of the theoretical framework is inferred by the outcomes of experiments, these experiments must be able to be performed repeatedly.
PHYS 131L is the lab that accompanies PHYS 131. In this course, you will conduct experiments and make observations of various physical phenomena. The goal of this course is to help reinforce the theoretical framework developed in PHYS 131 by getting hands-on experience by doing experiments.

Course Requirements:
This class will meet once per week during the weeks listed below. During each class meeting, you will complete one lab assignment. The details of the lab assignment will vary from week to week, but will typically entail completing an assignment or tutorial. You will only be allowed to submit a completed lab assignment if you were present for the *entire* lab when the experiment was performed.

Attendance:
Class attendance is MANDATORY! If you must miss a lab, you must contact me PRIOR to the lab meeting. An excused absence will result in the scheduling of a lab make-up. An unexcused absence will result in a zero for that particular lab.

Grading Scale:

Percentage Score	Letter Grade	Percentage Score	Letter Grade
90-100	A	60-69	D
80-89	B	Below 60	F
70-79	C		

Accommodation for Students with Physical and Learning Disabilities:
In coordination with Educational Access Services, reasonable accommodations will be provided for qualified students with disabilities.

Students must register with the EAS office to receive assistance. Please meet with the instructor the first week of class for information and/or contact Dana VandeBurgt, the Coordinator of Educational Access Services, directly by phone at 248-1801, or in person in Houston Hall, Suite 108.

Student Conduct and Academic Integrity:

- For CMU policy on such matters, please refer to 2016-2017 CMU Catalog, pps. 45-46.
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Course Calendar

Date	
Aug 25	Lab 1
Sep 1	Lab 2
Sep 8	Lab 3
Sep 15	Lab 4
Sep 22	Lab 5
Sep 29	Lab 6
Oct 6	Lab 7
Oct 13	*No Lab*
Oct 20	Lab 8
Oct 27	Lab 9
Nov 3	Lab 10
Nov 10	Lab 11
Nov 17	Lab 12
Nov 24	*Thanksgiving Break – No Lab*
Dec 1	Lab 13
Dec 8	*Lab Makeup*

General Education Objectives:
This course is part of CMU's general education curriculum. Course content is designed to meet the following objectives of CMU's general education program:

1. Understand the structure and discipline of mathematical thought and its use in problem-solving
2. Have knowledge of the natural world and an understanding of scientific methods

Program-Level Student Learning Objectives:
This course satisfies the following Physics-degree student learning objectives:

1. Articulate the knowledge base and show fluency with the ideas and techniques of the major fields of physics (electromagnetism).
2. Use laboratory equipment and experimental techniques to investigate experimentally physical phenomena.
3. Communicate effectively about topics in physics verbally and in writing.